

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Reqsted: 10/22/2007

Time Report Reqsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

E2_Rev.1_R2

C Number: C96015

Lock Date: 04/30/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

TDMSE Version: 1.8.0

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Lab: SRI

ALIMENTARY SYSTEM

Esophagus Epithelium, Hyperkeratosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	2						
<hr/>																																					
Intestine Large, Cecum Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
<hr/>																																					
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Angiectasis, Focal																																					2
Degeneration, Cystic, Focal																																					1
Fibrosis, Focal																																					2
Hematopoietic Cell Proliferation																																					
Hepatodiaphragmatic Nodule																																					
Inflammation, Chronic																																					X
Necrosis																																					
Bile Duct, Hyperplasia	4	3	2		1	2	2	4	3	3	3	3	3	3	2	2	2	2	3	3	3	3	2	3	2	2	2	2	2	2	2						

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

14. Eosinophils qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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FISCHER 344 RATS MALE 0 MG/L	ANIMAL ID	DAY ON TEST																			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	6	5	5	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7
		1	9	0	0	6	0	4	3	3	3	2	3	3	2	2	2	3	3	3	3
		0	7	7	7	3	7	9	0	0	0	7	0	0	9	9	1	1	1	1	9
Hepatocyte, Basophilic Focus	X					X	X		X			X	X	X	X	X	X	X	X	X	X
Hepatocyte, Clear Cell Focus		X				X	X					X	X	X	X	X	X	X	X	X	X
Hepatocyte, Cytologic Alterations, Focal																					
Hepatocyte, Cytoplasmic Alteration, Focal																					
Hepatocyte, Eosinophilic Focus												X			X						
Hepatocyte, Mixed Cell Focus						X	X					X	X	X	X	X	X	X	X	X	X
Hepatocyte, Necrosis, Focal																					
Hepatocyte, Vacuolization Cytoplasmic	3	2	3	3	3	2	2	3				2		2	2	2	2	2		1	2
Mesentery	+	+	+	+	+	+	+	+	+	+											
Accessory Spleen		2																			
Fat, Necrosis, Focal	3	4	3			3	3	3													
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion												2									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid		2																			
Acinus, Atrophy, Focal	1		1		2	1	2				3		2	2	2	2	1	1		2	2
Acinus, Cytoplasmic Alteration																					
Duct, Cyst						X		X				X		X	X	X	X	X	X	X	X
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy, Focal																					
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer												2									
Epithelium, Hyperplasia												3		3							

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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2) Mild 4) Marked

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Species/Strain: RATS/F 344

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Lab: SRI

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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Lab: SRI

Lacrimal Gland

1

URINARY SYSTEM

Kidney
Infarct
Nephropathy
Renal Tubule, Accumulation, Hyaline
Droplet
Renal Tubule, Cyst
Renal Tubule, Pigmentation

Urinary Bladder
Hemorrhage

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Lab: SRI

ALIMENTARY SYSTEM

Esophagus Epithelium, Hyperkeratosis	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	48	6	1.8			
Intestine Large, Cecum Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+	+	+	48	1	3.0			
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	48					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49					
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49					
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	A	+	+	+	A	46					
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	A	+	+	+	+	47					
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Angiectasis, Focal																											1	2.0			
Degeneration, Cystic, Focal																											5	1.8			
Fibrosis, Focal																											1	2.0			
Hematopoietic Cell Proliferation																											1	3.0			
Hepatodiaphragmatic Nodule																		X		X							5				
Inflammation, Chronic																		1	2	2	2	1	2	2	1	X					
Necrosis																		3	4	3	3	3	3	2	1	2	2	1			
Bile Duct, Hyperplasia																		3	3	3	3	3	3	2	1	2	2	3	2	45	2.7

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I .. Insufficient tissue

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Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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Lab: SR

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A.. Autolysis precludes evaluation

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1) Minimal 3) Moderate

1) Minimal 3) Moderate
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Lab: SRI

HEMATOPOIETIC SYSTEM

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x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

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1-4 .. Lesion qualified as:

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Lab: SR

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0	
Congestion																					3			
Inflammation																					1	2	1.0	
Metaplasia, Osseous, Focal																					1	1	1.0	
Alveolar Epithelium, Hyperplasia																					2	12	1.9	
<hr/>																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2	1.5	
Nasolacrimal Duct, Inflammation																								
<hr/>																								
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			

SPECIAL SENSES SYSTEM

Eye Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	48	1	3.0
Harderian Gland Hyperplasia, Lymphoid, Focal Epithelium, Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	1.0

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Lab: SR

Lacrimal Gland

1

URINARY SYSTEM

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	49	2	3.5	
Nephropathy	1	2	1	2	2	1	1	2	2	3	3	2	2	2	2	2	2	1	1	2	2	1	48	1.8	
Renal Tubule, Accumulation, Hyaline Droplet															2								1	2.0	
Renal Tubule, Cyst										X													2		
Renal Tubule, Pigmentation											3												2	3.0	
<hr/>																									
Urinary Bladder Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3	1	3.0

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Lab: SR

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

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HEMATOPOIETIC SYSTEM

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MUSCULOSKELETAL SYSTEM

Skeletal Muscle

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ Tissue examined microscopically

- + .. Tissue examined
- x Lesion present

.. Lesion present
 Insufficient tissue

severely grade
M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

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SPECIAL SENSES SYSTEM

URINARY SYSTEM

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Lab: SR

ALIMENTARY SYSTEM

Esophagus Epithelium, Hyperkeratosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	8	1.6		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49				
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49				
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	48				
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	46				
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Angiectasis, Focal	2																							5	1.8	
Congestion																								4	2.3	
Degeneration, Cystic, Focal																								5	1.8	
Hematopoietic Cell Proliferation																								3	1.3	
Hepatodiaphragmatic Nodule																								6		
Inflammation, Chronic		2	1	1	2	2	2	1																31	1.8	
Bile Duct, Hyperplasia	3	3	3	3	3	3	3	2	2	3	1	3	3	3	2	3	3	3	3	3	1	3	3	3	47	2.7
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X			X			X	X	X	X	X	X	X	X		32		
Hepatocyte, Clear Cell Focus	X	X		X	X	X	X	X			X	X				X	X	X	X	X	X	X		22		

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Reqsted: 10/22/2007

Time Report Reqsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 50 MG/L	ANIMAL ID	DAY ON TEST																				* TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7		
		1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	
		0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	
Hepatocyte, Cytologic Alterations, Focal																						5 2.2	
Hepatocyte, Eosinophilic Focus																						8	
Hepatocyte, Mixed Cell Focus																						24	
Hepatocyte, Necrosis																						8 2.0	
Hepatocyte, Vacuolization Cytoplasmic		2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2	2	2	37 2.1	
Serosa, Fibrosis		2																				1 2.0	
Mesentery		+																				18	
Accessory Spleen			+																			1	
Fat, Necrosis, Focal		3																				3 3 10 2.9	
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																						2 2.5	
Acinus, Atrophy, Focal		2	2	3	1	2	2	1	2	2	2	2	2	4	2	1	2	3	2	2	2	1	37 1.9
Acinus, Hyperplasia, Focal																						1 2.0	
Duct, Cyst		X	X	X	X	X	X		X					X	X	X	X	X	X	X		21	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	49	
Ulcer											1											1 1.0	
Epithelium, Hyperplasia																						2 1.5	
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Erosion																						4 1.8	
Ulcer																						2 1.5	
Glands, Ectasia		1																				3 1.0	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Parathyroid Gland + M + M + 44

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

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Lab: SRI

GENERAL BODY SYSTEM

Peritoneum + + 6

GENITAL SYSTEM

Penis

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Lab: SR

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	3								3	3										5 3.0
Hyperplasia, Histiocytic, Focal											3									1 2.0
<hr/>																				
Lymph Node	+			+							+	+	+	+	+			+		24
Deep Cervical, Hemorrhage															3					1 3.0
Mediastinal, Ectasia																				1 3.0
Mediastinal, Hemorrhage															3					2 3.0
Mediastinal, Hyperplasia, Lymphoid																				2 3.0
Mediastinal, Pigmentation																3				1 3.0
Pancreatic, Ectasia																				2 3.0
Pancreatic, Hemorrhage																3				3 3.0

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7	7	
		1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3	3	
		0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0	0	
Pancreatic, Hyperplasia, Lymphoid																												1 3.0
Lymph Node, Mandibular		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0	
Lymph Node, Mesenteric Ectasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																												2 3.0
Hyperplasia, Lymphoid																												1 2.0
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Spleen																												1
Hematopoietic Cell Proliferation																												4 3.0
Hyperplasia, Histiocytic, Focal																												1 4.0
Hyperplasia, Lymphoid																												1 2.0
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectopic Parathyroid Gland																												1 3.0

INTEGUMENTARY SYSTEM

Mammary Gland Dilatation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
																											9 2.7	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst Epithelial Inclusion																												2
Hyperkeratosis, Focal																												2 3.0
Inflammation, Focal																												1 3.0
Epidermis, Hyperplasia, Focal																												1 3.0

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0
Congestion																					3		
Infiltration Cellular, Mixed Cell																					3		
Inflammation																					3		
Alveolar Epithelium, Hyperplasia																					1	3.0	
																					2	3.0	
																					2	1.0	
																					10	1.7	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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Lab: SR

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	47	
<hr/>																								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								1 2.0
Epithelium, Hyperplasia, Focal																								3 1.3
<hr/>																								
Lacrimal Gland																				+				1

URINARY SYSTEM

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x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

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TDMS No. 96015 - 05

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Species/Strain: RATS/F 344

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Lab: SR

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	7	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7	7	
	8	2	2	2	1	2	2	9	2	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	7	2	
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100 MG/L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
males (cont...)																											
Hepatocyte, Basophilic Focus	X	X	X		X	X	X	X													X	X	X	X			
Hepatocyte, Clear Cell Focus	X	X	X		X	X	X														X	X	X	X			
Hepatocyte, Cytologic Alterations, Focal																					3						
Hepatocyte, Eosinophilic Focus																					3						
Hepatocyte, Mixed Cell Focus			X	X		X	X	X				X									X	X	X	X			
Hepatocyte, Necrosis						3						2		1													
Hepatocyte, Vacuolization Cytoplasmic	2	3	2	2		2	2	2	2	3	2		3	2	3	3	3				2	2	3	2		3	3
Mesentery	+		+		+																+		+	+		+	
Fibrosis																											
Pigmentation																											
Fat, Necrosis, Focal	3		2		3																3		3		3		
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Vacuolization Cytoplasmic																					2						
Acinus, Atrophy, Focal	2	2	2		2	2	1	1	1	2	3	1	3	2	X	X	X	2	1		X	X	2	1	3	X	
Duct, Cyst					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																					2						
Ulcer																					2						
Epithelium, Hyperplasia																					3				2		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																					2						

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Essien present
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Less qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	7	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7	6	6	7	6	7
	8	2	2	2	1	2	2	9	2	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2	7	2	7	2	7
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9	1	0	0	1	9

FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 MG/L		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)			

GENITAL SYSTEM

Coagulating Gland

Epididymis
Inflammation

Preputial Gland
Cyst
Degeneration, Cystic
Hyperplasia, Cystic
Inflammation

Prostate
Inflammation
Epithelium, Hyperplasia

Seminal Vesicle Epithelium, Hyperplasia

Testes
Atrophy
Hemorrhage
Interstitial Cell, Hyperplasia, Focal

**males
(cont...)**

HEMATOPOIETIC SYSTEM

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† .. Tissue examined microscopically

.. Lesion present

.. Lesion present
 .. Insufficient tissue

M Missing tissue

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1-4 Lesion qualified as:

+ .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 96015 - 05

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Lab: SR

Thymus + + + + | + + + | + + + + + + + + + + M + + | + + + M +

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

Skeletal Muscle
Fibrosis

NERVOUS SYSTEM

Brain
 Compression, Focal
 Hemorrhage
 Hemorrhage, Focal

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Lab: SRI

Retina, Degeneration

3

Harderian Gland
Epithelium, Hyperplasia, Focal

Zymbal's Gland

URINARY SYSTEM

Kidney
Infarct
Mineralization
Nephropathy
Renal Tubule, Accumulation, Hyaline
Droplet

Urethra

**Urinary Bladder
Hemorrhage**

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+ .. Total animals with tissue examined

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

.. Lesion qualified as:

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† Tissue examined microscopically

- + .. Tissue examine
- x Lesion present

.. Lesion present
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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Adrenal Cortical Nodule																					3 1.0
Cytoplasmic Alteration, Focal																					2 2.0
Hyperplasia, Focal																					1 2.0
Vacuolization Cytoplasmic																					5 2.0
.....																					
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Total animals with tissue examined

x ... Lesion present

X .. Essien present
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

GENERAL BODY SYSTEM

Tissue NOS + 2
Abdominal, Fibrosis 1 3.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A.. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Cyst
Erosion
Fibrosis
Inflammation
Ulcer
Epithelium, Hyperplasia
Glands, Ectasia
Glands, Hyperplasia

$$\begin{matrix} x \\ 2 \end{matrix}$$

males (cont...)

Tongue
Epithelium, Hyperplasia

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy
Thrombosis

ENDOCRINE SYSTEM

Adrenal Cortex
Accessory Adrenal Cortical Nodule
Angiectasis
Cytoplasmic Alteration, Focal
Hyperplasia, Focal
Infiltration Cellular, Mixed Cell
Vacuolization Cytoplasmic

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

GENERAL BODY SYSTEM

Peritoneum
Inflammation

Tissue NOS

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Abdominal, Fibrosis

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

1-4: Ejection qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

ALIMENTARY SYSTEM

Esophagus Epithelium, Hyperkeratosis	+ 2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Cecum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	47		
Intestine Large, Colon	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Intestine Large, Rectum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Intestine Small, Duodenum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Intestine Small, Ileum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	47		
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	47		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis, Focal																						2	3	1.7	
Congestion	2																						6	2.5	
Degeneration, Cystic, Focal																							4	1.5	
Hepatodiaphragmatic Nodule																								2	
Inflammation, Chronic	2																							34	1.9
Bile Duct, Hyperplasia	3	3	3	2	3	3	3	2	2	2	2	3	3	1	3	2	1	3	3	2	2	3	3	46	2.5
Hepatocyte, Basophilic Focus	X		X	X	X			X		X		X				X		X	X	X		X		25	
Hepatocyte, Clear Cell Focus	X			X	X		X	X	X		X	X				X	X	X	X	X				22	
Hepatocyte, Cytologic Alterations, Focal							2		2									3						6	2.3

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

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BLANK - Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Reqsted: 10/22/2007

Time Report Reqsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 200 MG/L	ANIMAL ID	DAY ON TEST																				* TOTALS		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	7	5	7		
		2	2	1	3	3	2	2	2	3	1	3	8	2	2	3	3	3	3	3	2	9		
		9	9	4	0	0	9	2	9	0	3	0	3	9	9	0	6	0	1	1	9	9	2	
Hepatocyte, Eosinophilic Focus	X	X																				7		
Hepatocyte, Mixed Cell Focus	X		X	X																		29		
Hepatocyte, Necrosis			2					1		2											1	1.5		
Hepatocyte, Vacuolization Cytoplasmic	1	4	1			3	3		2			2	2	2	2	3	2		2	2	2	3	29 2.3	
Mesentery	+	+	+			+															+	+	15	
Fat, Necrosis, Focal		3		3																	3	3	7 3.0	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia, Lymphoid																						1 2.0		
Lipomatosis																						1 3.0		
Acinus, Atrophy, Focal	1	2			3		3	3		2		3	1	2	1		2	3			2	2	30 2.1	
Acinus, Atrophy, Diffuse																						1 3.0		
Acinus, Hyperplasia, Focal																						1 2.0		
Duct, Cyst	X																					16		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy, Focal																						1 1.0		
Vacuolization Cytoplasmic																						1 3.0		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Ulcer		3			2																	3 2.7		
Epithelium, Cyst																						X 1		
Epithelium, Hyperkeratosis																						1 1.0		
Epithelium, Hyperplasia		3			2					2											1 7 2.1			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

GENERAL BODY SYSTEM

Peritoneum
Inflammation + + 2 2 1 2.0

Tissue NOS + + 1

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

Abdominal Fibrosis

3

13-0

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Hemorrhage, Focal

(3)

2 3.0

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

URINARY SYSTEM

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4 ... Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Tooth Periodontal Tissue, Inflammation

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Adrenal Medulla
Hyperplasia, Focal + + + + + + + + + + + + + + + + + + + M + + + + +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

	DAY ON TEST																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS FEMALE	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	5	7
0 MG/L	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	5
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	1	5

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland Atrophy	+	I	M	+	+	+	M	+	+	+	M	M	+	+	+	+	+	+	+	+
Hyperplasia																		2		
Pituitary Gland Angiectasis	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Cyst											X							3		
Hemorrhage																			X	
Hyperplasia, Histiocytic, Focal																				2
Pars Distalis, Cyst																				
Pars Distalis, Cytoplasmic Alteration, Focal																				
Pars Distalis, Hyperplasia, Focal																				
Pars Intermedia, Hyperplasia, Focal																				
Rathke's Cleft, Cyst																				X
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+
	1	1	1	2	2	2	1	1	A	1	4	1	A	2	+	1	2	+	2	3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland +
 Degeneration, Cystic 2 2
 Hyperplasia, Cystic 3

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Droplet

Renal Tubule, Cyst

Renal Tubule, Pigmentation

x

3

females (cont...)

Urinary Bladder

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

ALIMENTARY SYSTEM

Esophagus Epithelium, Hyperkeratosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
	1					1				2		2			1	2						10 1.7
Intestine Large, Cecum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Intestine Large, Colon	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Intestine Large, Rectum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Small, Ileum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45	
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	42	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis, Focal																					2 1.5	
Congestion																					3 2.0	
Degeneration, Cystic, Focal																					1 2.0	
Hepatodiaphragmatic Nodule	X	X	X																		7	
Inflammation, Chronic	2	2	1				2	3	2	2	2	1				2	1	2	2	1	1	35 1.6
Thrombosis																					1 2.0	
Bile Duct, Hyperplasia		2	1				1	1	1	1	1					2	1	2	2	3	2	29 1.7
Hepatocyte, Basophilic Focus	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	39	
Hepatocyte, Clear Cell Focus							X	X									X	X	X	X	11	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

± .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

.....
 Clitoral Gland + 50
 Degeneration, Cystic 2 2.0
 Hyperplasia, Cystic 4 2.8

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Inflammation		1	3	1.7
Metaplasia, Squamous, Focal	2		1	2.0
Alveolar Epithelium, Hyperplasia	1	2	2	10 1.9
Interstitial, Edema	2		1	2.0

SPECIAL SENSES SYSTEM

URINARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Droplet

Renal Tubule, Cyst

Renal Tubule, Pigmentation

1
1 3.0

Urinary Bladder

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

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I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	7	7	5	7	6	5	6	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	7	3	3	6	3	0	7	7	3	3	3	3	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2	5	5	1	5	0	6	9	5	5	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4
<hr/>																														
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	females (cont...)
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5					

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Droplet Renal Tubule, Cyst

X

Urinary Bladder

**females
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	7	7	7	7	7	7	7	7	7	7	6	7	7	6	6	6	6	6	7	7	7	7	7	7
	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	6	8	0	2	3	3	3	3	3
	4	6	6	6	6	6	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5
<hr/>																								
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

ALIMENTARY SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

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I .. Insufficient tissue

M.. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

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Date Report Registered: 10/22/2007

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Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

HEMATOPOIETIC SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

± .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

1-4: Ejection qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

INTEGUMENTARY SYSTEM

Mammary Gland Dilatation Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	41	2.7
	4	2	3	3	3	2	2	2	3	4	3	4	3	2	2	2	2	2	2	3	2	3	1	3.0
Skin Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

SPECIAL SENSES SYSTEM

URINARY SYSTEM

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Mineralization																				1 2.0	
Nephropathy	1	1	1	1	2	2	1	1	1	1	1	1	1	1	3					1 3.0	
Renal Tubule, Accumulation, Hyaline		2	2		2	2	2	3								2	1	1	1	1	36 1.2
																2	1	2		18 2.0	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Droplet Renal Tubule, Cyst

1

Urinary Bladder

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Essien present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Tongue
Epithelium, Hyperplasia

**females
(cont...)**

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																							
Angiectasis																							3
Cytoplasmic Alteration, Focal		2	2																				
Hyperplasia, Focal	2			2																			2
Infiltration Cellular, Mixed Cell																							1
Vacuolization Cytoplasmic					2	2	2		1									2	2				

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1-4 .. lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Zymbal's Gland

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Reqsted: 10/22/2007

Time Report Reqsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS FEMALE 100 MG/L	ANIMAL ID	DAY ON TEST																				* TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	
Hepatocyte, Clear Cell Focus		X		X	X	X																14
Hepatocyte, Cytologic Alterations, Focal		4	3	4	4																	16 2.5
Hepatocyte, Eosinophilic Focus				X			X															6
Hepatocyte, Mixed Cell Focus				X	X	X																15
Hepatocyte, Necrosis		4	1		2	2	2	3														6 1.5
Hepatocyte, Vacuolization Cytoplasmic		3	1		2	2	2	3														29 2.0
Mesentery		+				+																17
Fat, Necrosis, Focal																						10 2.9
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Acinus, Atrophy, Focal																						19 1.8
Duct, Cyst		X	X																			7
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Erosion																						1 2.0
Inflammation																						1 3.0
Ulcer																						1 3.0
Epithelium, Hyperplasia		1	2																			8 1.9
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Erosion																						4 2.5
Ulcer		2																				2 2.0
Glands, Ectasia																						10 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

Zymbal's Gland

+

1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0			
Infiltration Cellular, Lymphocyte																										
Nephropathy	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2	1	2	1	1	2	2	1	44	1.3	
Renal Tubule, Accumulation, Hyaline																										
Droplet																								17	2.2	
Renal Tubule, Hyperplasia, Focal																									1	1.0
<hr/>																										
Urinary Bladder	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49					

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

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+ .. Tissue examined microscopically

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| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Regsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule																								
Angiectasis																								
Cytoplasmic Alteration, Focal		2																						
Hyperplasia, Focal			2																			2	1	
Infiltration Cellular, Mixed Cell					1												2							
Necrosis																								
Vacuolization Cytoplasmic																					2	2	2	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

	DAY ON TEST																	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	7	7	7	5	3	7	6	7	7	7	7	6	7	7
	2	7	2	2	2	3	1	1	9	8	3	5	3	3	3	2	2	7
	9	1	9	9	9	5	4	4	6	0	5	7	5	5	9	9	1	9
FISCHER 344 RATS FEMALE																		
ANIMAL ID																		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
	200 MG/L																	
	females (cont...)																	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	I	+	+	+	+	+	+	+	+	+	M	+	M	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																		
Cyst																		
Fibrosis, Focal																		
Hemorrhage																		
Pars Distalis, Cyst																		
Pars Distalis, Cytoplasmic Alteration, Focal																		
Pars Distalis, Hyperplasia																		
Pars Distalis, Hyperplasia, Focal																		
Rathke's Cleft, Cyst																		
Thyroid Gland	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	2	2	2	2	1	2	2	3	2	2	2	1	2	2	2	3	3	2

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Clitoral Gland

Cyst

Degeneration, Cystic

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

Time Report Registered: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

URINARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Requested: 10/22/2007

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First Dose M/F: 09/05/01 / 09/05/01

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ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Reqsted: 10/22/2007

Time Report Reqsted: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS FEMALE 200 MG/L	ANIMAL ID	DAY ON TEST																								* TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	7	7	7	7	7	7	7	7	4	7	6	7	7	5	7	7	7	6	7	5	6	7	7		
		3	0	3	3	3	3	3	3	3	7	3	7	3	3	9	1	3	3	2	1	5	4	3	0		
		4	2	4	4	4	6	6	6	6	7	6	1	6	6	0	0	5	5	9	4	1	8	6	1		
Hepatocyte, Cytologic Alterations, Focal		4		3		2		4		3		1		2		2		2		3		16	2.4				
Hepatocyte, Eosinophilic Focus																							1				
Hepatocyte, Mixed Cell Focus		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	25					
Hepatocyte, Necrosis																							3	1.0			
Hepatocyte, Vacuolization Cytoplasmic																							23	1.7			
Mesentery		+	+																				+	+	15		
Accessory Spleen																							X		1		
Fat, Necrosis, Focal		3	2																				2	3	3	11	2.7
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2	2.0
Hyperplasia																							1				
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Acinus, Atrophy, Focal		2	3	1																						17	1.9
Acinus, Cytoplasmic Alteration																										1	2.0
Duct, Cyst		X	X	X																						4	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1.0	
Erosion																										2	2.0
Ulcer																										2	
Epithelium, Hyperplasia																										3	4.25
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Erosion																										1	2.0
Inflammation, Focal																										1	
Ulcer																										1	2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Dibromoacetonitrile)

CAS Number: 3252-43-5

Date Report Registered: 10/22/2007

Time Report Requested: 08:24:14

First Dose M/F: 09/05/01 / 09/05/01

Lab: SR

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

x .. Essien present
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

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Lab: SRI

GENERAL BODY SYSTEM

Peritoneum + 1

GENITAL SYSTEM

Clitoral Gland + 50
 Cyst X 1
 Degeneration, Cystic 3 3 3 6 3.2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

x .. Session present
| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
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Lab: SRI

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

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Lab: SR

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: SRI

NERVOUS SYSTEM

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M.. Missing tissue

A.. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: SRI

URINARY SYSTEM

*** END OF REPORT ***

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked